



20892US1
SEQUENCE LISTING

<110> Corbett, Wendy Lea
Crowther, Robert Lewis
Dunten, Pete William
Kammlott, R. Ursula
Lukacs, Christine Maria

<120> Crystals of Glucokinase and Methods of Growing Them

<130> 20892US1

<140> US 10/318,308

<141> 2002-12-12

<150> US 60/341,988

<151> 2001-12-19

<160> 1

<170> PatentIn version 3.1

<210> 1

<211> 692

<212> PRT

<213> Escherichia coli

<400> 1

Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro
1 5 10 15

Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
20 25 30

Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
35 40 45

Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
50 55 60

Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
65 70 75 80

Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
85 90 95

Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
100 105 110

Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
115 120 125

Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
130 135 140

20892US1

Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
 145 150 155 160
 Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
 165 170 175
 Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
 180 185 190
 Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
 195 200 205
 Thr Phe Gly Gly Gly Asp His Pro Pro Lys Ser Asp Leu Ile Glu Gly
 210 215 220
 Arg Gly Ile His Met Pro Arg Pro Arg Ser Gln Leu Pro Gln Pro Asn
 225 230 235 240
 Ser Gln Val Glu Gln Ile Leu Ala Glu Phe Gln Leu Gln Glu Glu Asp
 245 250 255
 Leu Lys Lys Val Met Arg Arg Met Gln Lys Glu Met Asp Arg Gly Leu
 260 265 270
 Arg Leu Glu Thr His Glu Glu Ala Ser Val Lys Met Leu Pro Thr Tyr
 275 280 285
 Val Arg Ser Thr Pro Glu Gly Ser Glu Val Gly Asp Phe Leu Ser Leu
 290 295 300
 Asp Leu Gly Gly Thr Asn Phe Arg Val Met Leu Val Lys Val Gly Glu
 305 310 315 320
 Gly Glu Glu Gly Gln Trp Ser Val Lys Thr Lys His Gln Met Tyr Ser
 325 330 335
 Ile Pro Glu Asp Ala Met Thr Gly Thr Ala Glu Met Leu Phe Asp Tyr
 340 345 350
 Ile Ser Glu Cys Ile Ser Asp Phe Leu Asp Lys His Gln Met Lys His
 355 360 365
 Lys Lys Leu Pro Leu Gly Phe Thr Phe Ser Phe Pro Val Arg His Glu
 370 375 380
 Asp Ile Asp Lys Gly Ile Leu Leu Asn Trp Thr Lys Gly Phe Lys Ala

20892US1															
385				390				395				400			
Ser	Gly	Ala	Glu	Gly 405	Asn	Asn	Val	Val	Gly 410	Leu	Leu	Arg	Asp	Ala 415	Ile
Lys	Arg	Arg	Gly 420	Asp	Phe	Glu	Met	Asp 425	Val	Val	Ala	Met	Val 430	Asn	Asp
Thr	Val	Ala 435	Thr	Met	Ile	Ser	Cys 440	Tyr	Tyr	Glu	Asp	His 445	Gln	Cys	Glu
Val	Gly 450	Met	Ile	Val	Gly	Thr 455	Gly	Cys	Asn	Ala	Cys 460	Tyr	Met	Glu	Glu
Met 465	Gln	Asn	Val	Glu	Leu 470	Val	Glu	Gly	Asp	Glu 475	Gly	Arg	Met	Cys	Val 480
Asn	Thr	Glu	Trp	Gly 485	Ala	Phe	Gly	Asp	Ser 490	Gly	Glu	Leu	Asp	Glu 495	Phe
Leu	Leu	Glu	Tyr 500	Asp	Arg	Leu	Val	Asp 505	Glu	Ser	Ser	Ala	Asn 510	Pro	Gly
Gln	Gln	Leu 515	Tyr	Glu	Lys	Leu	Ile 520	Gly	Gly	Lys	Tyr	Met 525	Gly	Glu	Leu
Val	Arg 530	Leu	Val	Leu	Leu	Arg 535	Leu	Val	Asp	Glu	Asn 540	Leu	Leu	Phe	His
Gly 545	Glu	Ala	Ser	Glu	Gln 550	Leu	Arg	Thr	Arg	Gly 555	Ala	Phe	Glu	Thr	Arg 560
Phe	Val	Ser	Gln	Val 565	Glu	Ser	Asp	Thr	Gly 570	Asp	Arg	Lys	Gln	Ile 575	Tyr
Asn	Ile	Leu	Ser 580	Thr	Leu	Gly	Leu	Arg 585	Pro	Ser	Thr	Thr	Asp 590	Cys	Asp
Ile	Val	Arg 595	Arg	Ala	Cys	Glu	Ser 600	Val	Ser	Thr	Arg	Ala 605	Ala	His	Met
Cys	Ser 610	Ala	Gly	Leu	Ala	Gly 615	Val	Ile	Asn	Arg	Met 620	Arg	Glu	Ser	Arg
Ser 625	Glu	Asp	Val	Met	Arg 630	Ile	Thr	Val	Gly	Val 635	Asp	Gly	Ser	Val	Tyr 640

20892US1

Lys Leu His Pro Ser Phe Lys Glu Arg Phe His Ala Ser Val Arg Arg
645 650 655

Leu Thr Pro Ser Cys Glu Ile Thr Phe Ile Glu Ser Glu Glu Gly Ser
660 665 670

Gly Arg Gly Ala Ala Leu Val Ser Ala Val Ala Cys Lys Lys Ala Cys
675 680 685

Met Leu Gly Gln
690